STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

August 24, 1983

Mr. Thomas E. Robison
General Manager
Western Clay Company
P. O. Box 1067
Aurora, Utah 84620

RE: Conditional Tentative Approval
Western Clay Company
Redmond Bentonite Pit
ACT/041/012
Sevier County, Utah

Dear Mr. Robison:

Tentative approval for Western Clay's bentonite pit has been given by the Division of Oil, Gas and Mining. An abbreviated version of your Mining and Reclamation Plan (MRP) has been published for the required 30-day public comment period. Western Clay's MRP will be in full compliance with the Utah Mined Land Reclamation Act of 1975 (Title 40-8) subject to the following conditions.

A. No adverse public comment is received by the Division regarding this operation.

B. Conditions included in this letter are agreed to in writing or satisfactorily addressed by Western Clay Company.

C. The required bond is posted with the Utah Division of State Lands & Forestry.

As indicated in B above, a written commitment and/or satisfaction by Western Clay Company is required for the following items:

1. An estimate of the volume of topsoil currently stockpiled at the site must be provided.

2. Western Clay shall make all resonable efforts to secure a beneficial use for the pit (e.g., a sanitary landfill, hazardous waste disposal site, etc.) and provide an update describing progress towards this end as part of the Annual Operations and Progress Report required by Rule M-8.

3. A test plot program must be initiated in the autumn of 1983 pursuant to previous correspondence and on-site consultation. A proposed program is enclosed for your comments and concurrence.

4. A soils testing plan must be submitted within 30 days of receipt of this letter or Western Clay may agree to utilizing the following parameters (most of which were previously cited in a Division review letter of May 11, 1983).

   A. pH
   B. EC - electrical conductity
   C. SAR - Sodium absorbtion ratio
   D. Available nitrogen, phosphorous and potassium
   E. Organic matter

   The purpose of this program is to check soil fertility at the time of reclamation thus allowing for recommendations of fertility amendments.

5. Chemical data concerning the pit water must be submitted as previously indicated.

6. A letter of concurrence from the adjacent landowner regarding discharges of pumped water must be provided to show landowner concurrence.

This should address all Division concerns which were not satisfied by your May 31, 1983 letter as well as confirm verbal statements from the Division's on-site tour.

Should you have any questions or comments on the content or language of the above conditions, please contact Tom Portle of my staff as soon as possible. Upon satisfaction of the items detailed in this letter final approval may be given.

Sincerely,

JAMES W. SMITH, JR.
COORDINATOR OF MINED
LAND DEVELOPMENT

JWS/TLP:btb
Enclosures
cc: John Blake, Division of State Lands & Forestry
P. Grubaugh-Littig, DOGM
D. Wayne Hedberg, DOGM
S. Linner, DOGM
T. Portle, DOGM
C. Young, DOGM

UTAH STATE UNIVERSITY · LOGAN, UTAH 84322

SOIL, PLANT and WATER
ANALYSIS LABORATORY
UMC 48

Tom Portle
DOGM
4241 State Office Building
Salt Lake City, UT 84114

Samples received on May 16, 1983.

USU Log #	Ident.	% > 2 mm	Lime	pH	EC_e	Texture	% O.C.*	CEC*	SAR*	% N	SP*	
					electrical conductivity		organic carbon	cation exchange capacity	sodium absorbtion Ratio		saturation percentage	
041/012 W. Clay 83-986	W-1	10	++	8.6	13.2	Sandy Clay Loam	.35	17.2	72.3	.04	87	East stockpile
987	W-2	12	++	8.3	19.0	Clay Loam	.32	23.9	55.1	.02	104	West stockpile
988	W-3	5	++	8.1	23.9	Clay Loam	.28	10.2	47.5	.01	68	Highwall soils
989	W-4	7	++	9.1	8.9	Clay	.15	45.7	87.5	.01	243	Bentonite subsoil
07/011 990	H-1	65	++	7.8	.8	Silt Loam	2.64	13.2	1.4	.18	49	
991	H-2	41	++	8.0	.6	Silt Loam	1.63	11.3	.9	.13	43	

	ppm			Water-Soluble (me/l)	Amm. Acetate (me/100g.)			
Ident.	P	K	NO_3-N	Na	Na	K	Ca	Mg
W-1	4.2	156	4.0	125	26.1	.52	46.6	2.2
W-2	7.0	204	6.5	143	43.1	.70	43.1	1.0
W-3	3.4	83	8.1	190	21.7	.33	101.6	1.6
W-4	0.8	172	11.0	75.8	58.2	.54	20.3	1.0
H-1	3.4	43	9.6	2.5	.2	.13	50.2	1.3
H-2	2.8	39	7.2	1.4	.3	.12	49.7	2.0

* See enclosed key to abbreviations.

R E Lamborn